

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S57	157	(circuit or IC or pic) with (photonic near2 (bandgap or band-gap or crystal or crystalline))	USPAT	OR	ON	2007/04/15 10:46
S58	217	(circuit or IC or pic) with (photonic near2 (bandgap or band-gap or crystal or crystalline))	US-PGPUB; USOCR	OR	ON	2007/04/15 10:46
S59	154	(circuit or IC or pic) with (photonic near2 (bandgap or band-gap or crystal or crystalline))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S60	24	(S57 or S58 or S59) and (defect and electrode and resonat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S61	0	("2006/0056758").URPN.	USPAT	OR	OFF	2007/04/15 10:46
S62	0	("2005/0078902").URPN.	USPAT	OR	OFF	2007/04/15 10:46
S63	1	("6310991").PN.	USPAT	OR	OFF	2007/04/15 10:46
S64	18	("6134369"   "6175671"   "6204952").PN. OR ("6310991").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 10:46
S65	8	("20030011775"   "5970191"   "6088496"   "6134369"   "6175671"   "6240232"   "6310991"   "6381389").PN. OR ("6782169").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 10:46
S66	1	((("2001031109") or ("5400419")).PN.	US-PGPUB; USPAT	OR	OFF	2007/04/15 10:46
S67	2	((("20010031109") or ("5400419")).PN.	US-PGPUB; USPAT	OR	OFF	2007/04/15 10:46
S68	7156	((photonic) near2 (crystal or crystalline or bandgap or band-gap or (band adj gap) or integrated or circuit or IC)) or pbg or pic or pcic	USPAT	OR	OFF	2007/04/15 10:46
S69	814	S68 and modulator	USPAT	OR	OFF	2007/04/15 10:46
S70	545	S69 and (photodetector or photodetector or detector or photodiode or photo-diode)	USPAT	OR	ON	2007/04/15 10:46

## EAST Search History

S71	145	S70 and defect	USPAT	OR	ON	2007/04/15 10:46
S72	126	S71 and (electrode or contact)	USPAT	OR	ON	2007/04/15 10:46
S73	64	S72 and resonat\$6	USPAT	OR	ON	2007/04/15 10:46
S74	1979	(((((phonic) near2 (crystal or crystalline or bandgap or band-gap or (band adj gap)) or pbg or pic or pcic)) with (circuit	US-PGPUB; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S75	839	(((((phonic) near2 (crystal or crystalline or bandgap or band-gap or (band adj gap)) or pbg or pic or pcic)) with (circuit	USPAT	OR	ON	2007/04/15 10:49
S76	70	(S75 or S74) and (modulat\$3 same defect)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S77	8	("20030011775"   "5970191"   "6088496"   "6134369"   "6175671"   "6240232"   "6310991"   "6381389").PN. OR ("6782169").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 10:46
S78	332	S75 and ((second or two or multiple or plurality) near2 (circuit or circuits))	USPAT	OR	ON	2007/04/15 10:46
S79	1	("4941205").PN.	USPAT	OR	OFF	2007/04/15 10:46
S80	0	S79 and chip	USPAT	OR	ON	2007/04/15 10:46
S81	0	S79 and (substrate or carrier)	USPAT	OR	ON	2007/04/15 10:46
S82	102	rxpic and txpic	US-PGPUB; USPAT	OR	ON	2007/04/15 10:46
S83	102	S82 and (phonic)	US-PGPUB; USPAT	OR	ON	2007/04/15 10:46
S84	0	S82 and (phonic near2 (crystal or crystalline or bandgap or band-gap))	US-PGPUB; USPAT	OR	ON	2007/04/15 10:46
S85	0	S82 and (phonic near2 (gap or band))	US-PGPUB; USPAT	OR	ON	2007/04/15 10:46

## EAST Search History

S86	29	S82 and (crystal or crystalline)	US-PGPUB; USPAT	OR	ON	2007/04/15 10:46
S87	2	((monolithic\$6 or mono-lithic\$6) near2 (circuit)) with (photonic near2 (crystal or crystalline))	US-PGPUB; USPAT	OR	ON	2007/04/15 10:46
S88	2	((monolithic\$6 or mono-lithic\$6) near2 (circuit)) with (photonic near2 (crystal or crystalline))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S89	4	((monolithic\$6 or mono-lithic\$6) near2 (circuit)) same (photonic near2 (crystal or crystalline))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S90	39	((monolithic\$6 or mono-lithic\$6) near2 (circuit)) and (photonic near2 (crystal or crystalline))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S91	198	((integrated) near2 (circuit)) with (photonic near2 (crystal or crystalline))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S92	81	(photonic near2 (crystal or crystalline)) same ((line near2 defect) and (point near2 defect))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46

## EAST Search History

S93	25	S92 and electrode		US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S94	17	"6310991"		US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S95	3	S94 and (resonat\$3)		US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S96	79	((photonic near2 (crystal or crystalline)) or ((photonic near2 (band-gap or bandgap or (band adj gap))) with structure)) and (line with defect) and (point with defect) and (electrode or electric\$6) and (resonat\$5)		US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S97	35	S96 and @ad<"20031011"		US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 10:46
S98	8	("20010048783"   "20030039446"   "5999308"   "6058127"   "6101300"   "6130969"   "6532326").PN. OR ("6819691").URPN.		US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 10:46

## EAST Search History

S99	0	((subwavelength or sub-wavelength) with (resonat\$)) and (line with defect) and (point with defect) and (electrode or electric\$6) and (resonat\$5)	OR	ON	2007/04/15 10:46
S10 0	1	("20020009277").PN.			
S10 1	0	S100 and electr\$6	OR	OFF	2007/04/15 10:46
S10 2	0	S100 and electr\$6	OR	OFF	2007/04/15 10:46
S10 3	1	S100 and electr\$6	OR	OFF	2007/04/15 10:46
S10 4	35	(US-20060056758-\$ or US-20050078902-\$ or US-20050047702-\$ or US-20040213534-\$ or US-20040076361-\$ or US-20030202728-\$ or US-20030123827-\$ or US-20060034577-\$ or US-20050111781-\$ or US-20040033009-\$ or US-20040001665-\$ or US-20050084213-\$ or US-20030048993-\$ or US-20020167984-\$ or US-20020167013-\$ or US-20050207696-\$ or US-20050226561-\$ or US-20050147339-\$ or US-20040175087-\$ or US-20040126055-\$ or US-20030016915-\$ or US-20020004307-\$ or US-20060051014-\$ or US-20050147371-\$ or US-20050146778-\$ or US-20030185532-\$).did. or (US-20030174993-\$ or US-20020009277-\$ or US-20030142719-\$ or US-20040062505-\$).did. or (US-6870970-\$ or US-6618535-\$ or US-6891993-\$ or US-6859304-\$ or US-6832033-\$ or US-6782169-\$ or US-6778746-\$ or US-6775430-\$ or US-6669801-\$ or US-6416575-\$ or US-6873777-\$ or US-6804283-\$ or US-6757463-\$ or US-6532326-\$ or US-6821903-\$ or US-6996319-\$ or US-6917744-\$ or US-6738551-\$).did. or (JP-2005091467-\$).did. or (JP-2004296560-\$ or US-20030048993-\$ or US-5923225-\$ or DE-19720784-\$).did.	OR	OFF	2007/04/15 10:46
S10 5	1	S104 and lithium	OR	OFF	2007/04/15 10:46

## EAST Search History

S10 6	1	("20020009277").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/15 10:46
S10 7	0	S106 and modulat\$6	US-PGPUB; USPAT	OR	OFF	2007/04/15 10:46
S10 8	1	("5202567").PN.	USPAT	OR	OFF	2007/04/15 10:49
S10 9	1	S108 and chip	USPAT	OR	OFF	2007/04/15 10:50
S11 0	15120	((circuit near2 board) with chip)	USPAT	OR	OFF	2007/04/15 10:50
S11 1	4575	((circuit adj board) near2 chip)	USPAT	OR	OFF	2007/04/15 10:55
S11 2	51	((circuit adj board) near2 chip) and "385"/\$.ccls.	USPAT	OR	OFF	2007/04/15 11:01
S11 3	1233	(S57 or S58 or S59 or S60 or S61 or S62 or S63 or S64 or S65 or S66 or S67 or S68 or S69 or S70 or S71 or S72 or S73 or S74 or S75 or S76 or S77 or S78 or S79 or S80 or S81 or S82 or S83 or S84 or S85 or S86 or S87 or S88 or S89 or S90 or S91 or S92 or S93 or S94 or S95 or S96 or S97 or S98 or S99 or S100 or S101 or S102 or S103 or S104 or S105 or S106 or S107 or S108 or S109) and @pd>"20060504"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 11:02
S11 4	470	S113 and @ad<"20031011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 11:02

## EAST Search History

S11 5	81	( "20020146865"   "20020174826"   "20020174827"   "20020181825"   "20030015720"   "20030025118"   "20030052082"   "20030052088"   "20030072548"   "20030110808"   "20030113085"   "20030114006"   "20040012041"   "20040012401"   "20040013338"   "3217856"   "4006432"   "4100562"   "4368481"   "4438447"   "4720468"   "4734910"   "4759023"   "4959540"   "4966430"   "4980568"   "5098861"   "5190883"   "5193131"   "5195161"   "5291010"   "5298787"   "5345557"   "5357122"   "5382810"   "5463229"   "5485021"   "5523557"   "5536974"   "5548433"   "5569934"   "5604361"   "5633527"   "5663592"   "5728605"   "5767508"   "5801872"   "5812708"   "5825051"   "5828679"   "5854804"   "5889903"   "5945720"   "5946438"   "5970081"   "5987196"   "6011296"   "6031243"   "6043515"   "6066860"   "6093939"   "6125217"   "6202165"   "6232142"   "6288410"   "6310372"   "6318901"   "6320204"   "6343171"   "6346717"   "6392342"   "6393183"   "6403395"   "6407438"   "6449411"   "6528779"   "6645829"   "6658173"   "6677655"   "6680495").PN. OR ("7110629").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 11:12
S11 6	9154	transceiv\$3 and chip and circuit and modulatt\$3 and (photodetect\$3 or photo-detect\$3 or detect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 12:03
S11 7	10377	transceiv\$3 and chip and circuit and modulatt\$3 and (photodetect\$3 or photo-detect\$3 or detect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 12:03
S11 8	422	S117 and (first near2 chip) and (second near2 chip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 12:04

## EAST Search History

S11 9	250	S118 and (control\$4 with modulat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 12:04
S12 0	37	"4954786"   "5006906"   "5054871"   "5078516"   "5199092"   "5206920"   "5418183"   "5488507"   "5617234"   "5623571"   "5631768"   "5673141"   "5720893"   "5790302"   "5809184"   "5870417"   "5913000"   "5920414"   "6008675"   "6052222"   "6094298"   "6111674"   "6141477"   "6162655"   "6174748"   "6186631"   "6271944"   "6271945"   "6288410"   "6298186"   "6307660"   "6310719"   "6433904"   "6466707"   "6782209"   "6922529"   "6954590").PN. OR ("7155078").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 12:18
S12 1	55	("20010053015"   "20020171890"   "20030081878"   "20030095736"   "20030095737"   "20030099018"   "20030123793"   "20030123804"   "20040013349"   "20040013378"   "20040033004"   "20040067006"   "4954786"   "5006906"   "5054871"   "5078516"   "5101453"   "5199092"   "5206920"   "5418183"   "5483372"   "5488507"   "5617234"   "5623571"   "5631768"   "5673141"   "5715076"   "5720893"   "5790302"   "5809184"   "5870417"   "5913000"   "5920414"   "6008675"   "6052222"   "6057918"   "6064513"   "6094298"   "6111674"   "6141477"   "6162655"   "6174748"   "6186631"   "6271944"   "6271945"   "6288410"   "6298186"   "6307660"   "6310719"   "6337871"   "6433904"   "6466707"   "6501866"   "6668000"   "6686993").PN. OR ("7123786").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 12:19
S12 2	27	("5225922"   "5548434"   "5654816"   "5790289"   "5801860"   "5920414"   "5995256").PN. OR ("6271944").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 12:23
S12 3	86	((first or primary) near2 chip) and ((second or secondary) near2 chip) and ((electric or electronic) near2 (circuit or circuitry)) and ((control\$4 with (electric or electronic or electronically or electrically)) same (modulat\$4)) and ((optic\$3 or light) near2 (signal or wavelength or frequency)) and (detect\$3 or photodetect\$3 or photo-detect\$3 or photodiode or photo-diode or (photo adj diode))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 12:36



## EAST Search History

S12 4	21	moletronic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/15 12:36
S12 5	0	("2005/0078902").URPN.	USPAT	OR	OFF	2007/04/15 12:37
S12 6	35	welch.in. and kish.in. and "385"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:27